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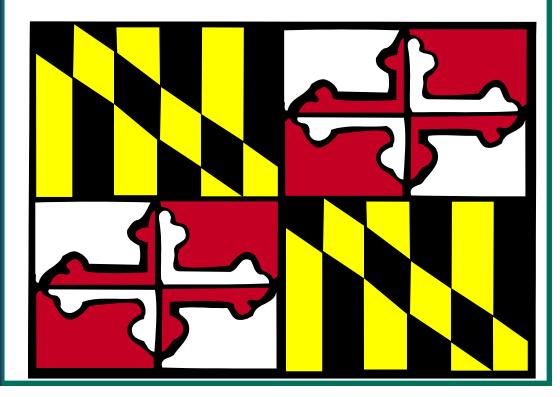
## Fort George G. Meade

and
Phoenix Military Reservation

Installation Action Plan

As of September 2005





# FY 2005

Fort George G. Meade and Phoenix Military Reservation Installation Action Plan

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## Statement of Purpose

The purpose of the Installation Action Plan (IAP) is to outline the total multi-year Installation Restoration Program for an installation. The plan will identify environmental cleanup requirements at each site or area of concern, and propose a comprehensive, installation-wide approach with associated costs and schedules to conduct investigations and necessary remedial actions.

The IRP is specifically focused at contamination resulting from past activities and is funded by the centrally-managed Environmental Restoration, Army (ER,A) budget account. Cleanup activities directed at contamination primarily resulting from current operations are separately funded and managed and, although mentioned where relevant, will not generally be discussed in detail in the IAP.

In an effort to coordinate planning information between the IRP manager, AEC, installations, executing agencies, regulatory agencies, and the public, an IAP has been completed for Fort Meade (FGGM) and Phoenix Military Reservation (PMR). The IAP is used to track requirements, schedules and budgets for all major Army installation restoration programs.

All site specific funding and schedule information has been prepared according to projected overall Army funding levels and is, therefore, subject to change. Under current project funding, all remedies will be in place at FGGM by the end of 2012.

The following agencies contributed to the formulation and completion of this Installation Action Plan:

**Engineering and Environment, Inc.** 

Fort George G. Meade

**MDE** 

**U.S. Army Corps of Engineers** 

**U.S. Army Environmental Center** 

U.S. EPA, Region III

### (Acronyms & Abbreviations)

**AEDB-R** Army Environmental Database - Restoration (formerly DSERTS)

**AST** Aboveground Storage Tank

ATSDR Agency for Toxic Substances and Disease Registry

**CAP** Corrective Action Plan

**CERCLA** Comprehensive Environmental Response Compensation and Liability Act (1980)

COC Contaminants of Concern Community Relations Plan

CTC Cost to Complete cubic yards

**DA** Department of Army

**DERP** Defense Environmental Restoration Program (now ER,A)

**DD** Decision Document

**DSERTS** Defense Site Environmental Restoration Tracking System (now AEDB-R)

**EPA** (United States) Environmental Protection Agency **ER,A** Environmental Restoration, Army (formerly DERA)

**FFA** Federal Facility Agreement

**FFSRA** Federal Facility Site Remediation Agreement

**FS** Feasibility Study

ft foot squa

ft<sup>2</sup> square feet FY Fiscal Year gal gallon

gpd gallons per dayGW Groundwater

HRS Hazard Ranking System
 IAP Installation Action Plan
 IRA Interim Remedial Action
 IROD Interim Record of Decision
 IRP Installation Restoration Program
 IWTP Industrial Wastewater Treatment Plant

K \$1,000 kg kilograms

LTM Long-term Monitoring LTO Long-term Operation

MCL Maximum Contaminant Level

MDE Maryland Department of the Environment

mgmiligramsMWMonitoring WellNENot EvaluatedNFANo Further Action

NPDES National Pollutant Discharge Elimination System

NOV Notice of Violation
NPL National Priorities List

**OB/OD** Open Burning/Open Detonation

**OU** Operable Unit

O&M Operation & Maintenance
PAH Poly Aromatic Hydrocarbons
PA Preliminary Assessment
PMR Phoenix Military Reservation
POL Petroleum, Oil & Lubricants

### Acronyms & Abbreviations

**POM** Program Objective Memorandum (budget)

PP Proposed Plan
PY prior year

RA Remedial Action

RA(O) Remedial Action - Operation RAB Restoration Advisory Board

RC Response Complete

**RCRA** Resource Conservation and Recovery Act

RD Remedial Design

**REM** Removal

RFA RCRA Facility Assessment
RI Remedial Investigation
RIP Remedy in Place
ROD Record of Decision

**RRSE** Relative Risk Site Evaluation

**SARA** Superfund Amendments and Reauthorization Act

SI Site Inspection

**SVOC** Semi-Volatile Organic Compounds SWMU Solid Waste Management Unit

**TAPP** Technical Assistance for Public Participation

ug/l microgram per liter

**USACE** United States Army Corps of Engineers

**USACHPPM** United States Army Center for Health Promotion and Preventive Medicine (formerly called

USAEHA)

**USAEC** United States Army Environmental Center (formerly USATHMA)

USAEHA United States Army Environmental Hygiene Agency (now USACHPPM)
USATHMA United States Army Toxic and Hazardous Material Agency (now USAEC)

UST Underground Storage TankVOC Volatile Organic Compounds

**yr** year



STATUS:

The USEPA has listed Fort Meade on the National Priorities list based on the hazard ranking scores of the Defense Reutilization and Marketing Office (DRMO) Drum Site (FGGM 07), landfill (FGGM 17), Post Laundry Facility (FGGM 47) and the Clean Fill Dump (FGGM 81-BRAC). RCRA oversight has been deferred; all future action will be taken pursuant to to CERCLA and the NCP at Installation Restoration Sites.

**TOTAL # OF AEDB-R SITES:** 

FGGM: 31 Sites PMR: 4 Sites 15 Active 1 Active

16 Response Complete 3 Response Complete

**DIFFERENT SITE TYPES:** 

11 Contaminated Buildings (2 PMR) 1 Contaminated Fill 2 Contaminated Groundwater 1 Surface Disposal Are

1 Disposal Pit/Dry Well 1 Incinerator

3 Landfills 2 Maintenance Yards 5 Storage Areas 3 Spill Site Areas 1 Waste Treatment Plant 1 Other (FGGM 78) 1 Soil Contamination After Tank Removal 1 UST (PMR)

1 Waste Line (PMR)

CONTAMINANTS OF CONCERN:

POLs, Chlorinated solvents, PCBs, Heavy metals, Non-chlorinated solvents, PAHs

**MEDIA OF CONCERN:** 

Groundwater, Surface Water, Soil

COMPLETED REM/IRA/RA:

- RA Troop Boiler Plant (FGGM 05) pump & treat system recovering POL, FY92-96, FY97, FY98
- REM DRMO Drum Site (FGGM 07) drum and transformer removal, FY95, VENC.
- RA DRMO Drum Site (FGGM 07), FY96, FY97, FY98
- RA Landfill Cell #1 (FGGM 17) construct leachate collection system, FY93, VENC. Cap installation, gas vent system, fill, FY94-95, FY96, FY97, FY98
- REM Battery Shop (FGGM 33) contaminated soil & tank removed, FY92, VENC
- REM USTs (FGGM 75) 309 USTs & contaminated soil removed, FY91-95 VENC, FY95, AFH

**CURRENT IRP PHASES:** 

RI/FS: 12 sites RA(O): 1 site

PROJECTED IRP PHASES:

RI/FS: 13 sites RD: 6 sites RA(C): 6 sites RA(O): 7 sites

LTM: 3 sites IRA: 1 site

IDENTIFIED POSSIBLE REM/IRA/RA:

RA at FGGM 07, 47, 83, 86, 87, 90, and PMR-001

**DURATION:** 

Year of IRP Inception1991Year (RA) all Sites are either RC or RIP2008Year (IRP) All LTM and RA(O) are complete2015+

## Installation Information

#### LOCALE:

Fort Meade is located on approximately 5,142 acres of land in Anne Arundel County, Maryland, midway between Baltimore, MD and Washington, DC. The facility is located southeast of the Baltimore-Washington Parkway, north of Maryland Route 32, and west of Maryland Route 175, approximately 28 miles from Fort McNair, DC.

#### IRP EXECUTING AGENCIES:

**Investigation Phase Executing Agency:** USAEC and Fort Meade. **Remedial Design and Action Executing Agency:** Fort Meade and U.S. Army Corps of Engineers, Baltimore District.

#### REGULATORY PARTICIPATION:

**Federal:** Environmental Protection Agency, Region III **State:** Maryland Department of the Environment.

#### REGULATORY STATUS:

- NPL, potential off-post contamination.
- Restoration Advisory Board established Mar 95.
- 90 Day storage facility.
- Notice of Violations for Site FGGM 05, Troop Boiler Area, issued Jun 91.
- Interagency Agreement, (pending).

#### MAJOR CHANGES TO IAP FROM PREVIOUS YEAR:

In response to the U.S. Army's revised Environmental Cleanup Strategy, Fort Meade is reorganizing and reprioritizing its Installation Restoration Program. An aggressive response complete date has been set for FY07. The Installation is responding with a new holistic approach to characterize all potentially impacted areas and implement remedies in accordance with the new Army guidance.

## Installation Description

Fort Meade originally was authorized by Congress in 1917 as one of sixteen training cantonments to be built for troops drafted during World War I. It became a permanent military reservation in 1928. During the First World War, more than 100,000 troops were trained at the installation. Subsequently, World War II brought 3.5 million men and women to Fort Meade for training in different phases from 1940 to 1946. At various times since 1946, Fort Meade has been involved in the mission of training troops.

Fort George G. Meade (FGGM) is a permanent U.S. Army installation situated in the northwest corner of Anne Arundel County, Maryland. Anne Arundel County is located in central Maryland on the western shore of the Chesapeake Bay estuary. Nearby communities include Odenton, Severn, Jessup, and Laurel. FGGM is close to the border of Howard County on the west and Prince Georges County on the south. FGGM is located almost equidistant (12 miles) between Baltimore, MD and Washington, DC. FGGM is located in a region of significant population. The resident and working populations of FGGM approach 50,000.

Subsequent to the Resource Conservation and Recovery Act (RCRA) Hazardous and Solid Waste Amendments of 1984, Fort Meade applied for a Part B Permit. In accordance with RCRA provisions, Fort Meade began investigating it's potential solid waste management units (SWMU) in 1987. At the same time, a site investigation began at the active sanitary landfill to determine what, if any, impacts the landfill had on local groundwater.

In 1988, Public Law 100-526, Base Closure and Realignment Act, identified Fort Meade for realignment to an administrative installation and to excess approximately 9,000 acres used for training. Since that time, Fort Meade has successfully and actively participated in developing the Restoration Advisory Board (RAB) in an effort to the keep the surrounding community abreast of restoration activities.

As a result of BRAC, CERCLA, and RCRA statutes, Fort Meade has remedial actions on-going in the BCA, OMA, and DERA-OMA accounts. The AEDB-R sites identified include funding from these three sources.

The installation was placed on the Federal Agency Hazardous Waste Compliance Docket in 1989, after issuance of the Part B Permit.

At the end of FY01, approximately 30 SWMUs remained to be reviewed by the Installation/EPA/State regulator Tier I Partnering team. As of FY03, these 30 SWMUs have been geographically consolidated, and assigned AEDB-R designations. Currently, 15 AEDB-R sites are currently under investigation. Completion of Remedial Investigations at all 15 sites is anticipated by the end of FY05.

Fort Meade is also responsible for the Phoenix Military Reservation (PMR). The PMR is a former Nike Fire Control Area (FCA), which historically operated from 1955-1972. The Maryland National Guard used the PMR for training from 1972 to the 1980s. Historical operations have resulted in environmental impacts at the PMR. Groundwater contamination is present on- and off-site. A Remedial Investigation is scheduled for FY04. Remedial action at the PMR is anticipated.

### Contamination Assessment

In 1980, USATHAMA (now U.S. Army Environmental Center) completed its initial installation assessment for Fort Meade. This assessment identified the need for a site investigation for the active sanitary landfill. No further action was taken until 1987 when USATHAMA updated the 1980 assessment to verify conditions at Fort Meade and determine the next steps to be taken. In 1988, USATHAMA began a preliminary assessment of the active sanitary landfill. In FY94, DERA funds were obtained to complete the cap on cell #1 of the landfill and OMA funds for the liner of active cell #2. All restoration work to date, besides the landfill, was done with OMA funds. Contaminants found in the landfill area include heavy metals, chlorinated solvents, and non-chlorinated solvents.

As of 28 July 1998, Fort Meade was added to the National Priorities List (NPL). This listing was based on a 1 April 1997 proposal by the United States Environmental Protection Agency (USEPA).

The PMR is contaminated with low levels of chlorinated solvents in groundwater. Response action is anticipated at this parcel.

Draft Work Plan for Ordnance Survey of 7600 acre Department of Interior Parcel.  Concept Design of the Cover, Leachate & Gas Collection Systems for FGGM.  Environmental Impact Statement - Existing Activities and Conditions.  Landfill Study.  Final - Installation Assessment of FGGM.  Final - Overall Environmental Impact Statement.  Final - Update of the Initial Installation Assessment of FGGM and Gaithersburg Research Facility.  Final - Stite Safety & Health Plan for Remedial Investigation at FGGM Landfill and Preliminary Assessment/Site Investigation at the Former Gaithersburg Nike Control and Launch Areas.  Draft - Task Order 2 Preliminary Assessment for Fort Holabird.  USATHAMA Task Order 2 Enhanced Preliminary Assessment Fort Holabird Crime Records Center.  Preliminary Draft - Environmental Assessment - Base Closure at Gaithersburg Mb.  Site Safety and Health Plan for Remedial Investigation at the Former Gaithersburg Preliminary Assessment Fort Holabird.  USATHAMA Task Order 2 Enhanced Preliminary Assessment Fort Holabird Crime Records Center.  Preliminary Draft - Environmental Assessment - Base Closure at Gaithersburg Mb.  Site Safety and Health Plan for Remedial Investigation Feasibility Studies at FGGM Landfill and Preliminary Assessment/Site Investigation at Former Gaithersburg Nike Control and Launch areas.  Draft - USATHAMA - Appendices for FGGM Active Sanitary Landfill and Clean Fill Dump Remedial Investigation - Accident Prevention Safety Plan.  USATHAMA - Appendices for FGGM Active Sanitary Landfill and Clean Fill Dump Remedial Investigation - Accident Prevention Safety Plan.  Preliminary Assessment Report FGGM - Hazardous Substances Identification and Storage and Potential Receptors for Ground-water, Surface Water and Onsite Pathways.  Draft Final - Document - USATHAMA Technical Report for Proposed Ordnance Clearance at FGGM.  Draft Final - Gaithersburg Appendices Final Project Report.  Final - Remedial Investigations/Feasibility Studies for Proposed Ordnance Clearing at FGGM.	Title	AUTHOR	DATE
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Draft Final Document - USATHAMA Ordnance	Admon	Mar-91
Clearance Survey.		Widi 01
Final - Gaithersburg Research Facility Central Area		Mar-91
Site Inspection.		
Draft - Comprehensive Base Realignment and		Mar-91
Partial Closure for FGGM & Fort Holabird.		
Final - Gaithersburg Project Report Appendices.		Mar-91
Volatile Analysis - Fort Meade Laundry Analytical		8-13 Aug 91
Data Package.		0 10 / tag 0 1
Environmental Investigation for Property Transfer - Fort Holabird Crime Records Center Environmental Investigation and Alternatives Assessment.		Sep-91
Draft - Addendum Site Health and Safety Plan Ordnance Clearance Survey.		1-Nov-91
Review of Draft Work Plan for Ordnance Survey of		4-Dec-91
1,400 Acres - Department of Interior Parcel.		
Post Laundry Facility Contaminant Assessment		6-Dec-91
Report.		
Final - Preliminary Assessment Report Addendum		Mar-92
for FGGM.		
Final Environmental Investigation Report for Fort		31-Mar-92
Holabird Crime Records Center.		
Work Plan for Unexploded Ordnance Clearance		Apr-92
Survey at FGGM.		
Accident Prevention and Safety Plan - FGGM		Apr-92
Ordnance Clearance Survey.		5 1 00
Site Health and Safety Plan - FGGM Ordnance		5-Jun-92
Clearance Survey.  Work Plan - FGGM Ordnance Clearance Survey.		8-Jun-92
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Draft Report for Asbestos Investigation and Estimation of Fort Holabird Crime Records Center (CRC).		15-Sep-92
Asbestos Investigation and Estimation of Fort		29-Oct-92
Holabird Crime Records Center.		
Post Laundry Facility comprehensive Site	Versar	15-Jun-98
Assessment		
Post Laundry Facility comprehensive Site	Versar	5-Mar-97
Assessment		07.0 05
Post Laundry Facility Additional Subsurface		27-Sep-95
Investigation Activities MDE Case # c-0094-132	Vorgor	6 Dec 01
Post Laundry Facility Contaminant Assessment Report	Versar	6-Dec-91
DPDO Final Report, Phase One HTRW (SCAPS)	Baltimore District Corps of Engineers	Apr-97
Investigation	Dailinote District Corps of Engineers	β-14Ω    β-14Ω
DPDO Draft Final, Phase One HTRW (SCAPS)	Baltimore District Corps of Engineers	Dec-96
Investigation	Data District Corps of Engineers	
DPDO Environmental Sampling Covered Storage	Baltimore District Corps of Engineers	Mar-97
Facility		
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DPDO Metals Package	Baltimore District Corps of Engineers	18-Sep-95
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DPDO Semi-volatile Package	Baltimore District Corps of Engineers	11-Sep-95
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DPDO Sample Analysis Report – GP worker Order	Baltimore District Corps of Engineers	25-Aug-95
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DPDO Sample Analysis Report - GP work Order	Baltimore District Corps of Engineers	13-Sep-95
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DPDO Sample Analysis Report – GP work Order	Baltimore District Corps of Engineers	5-Oct-95
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Sample Analysis Report – GP Work Order	Baltimore District Corps of Engineers	9-Oct-95
#9508037	, -	
Draft, Active Sanitary Landfill Atrazine Study Fort	Arthur D. Little	Jun-97
Meade Feasibility Study and Remedial		
Investigation/Site Inspection		
Draft, Active Sanitary Landfill Off-Post Drilling and	Arthur D. Little	Apr-97
Sampling Results and Surface Water Sampling		
Results Fort Meade Feasibility Study and Remedial		
Investigations/Site Inspection		
1997 Active Sanitary Landfill Semi-Annual	CH2MHill	Aug-97
Detection & Assessment Monitoring Report		
1998 Active Sanitary Landfill Semi-Annual	CH2MHill	Oct-98
Detection & Assessment Monitoring Report		
1996 Active Sanitary Landfill Annual Detection &	CH2MHill	Aug-96
Assessment Monitoring Report		
1997 Active Sanitary Landfill Annual Detection &	CH2MHill	Aug-97
Assessment Monitoring Report		
Clean Fill DumpPreliminary Data (surface soils,		Provided to RAB,
sediment, groundwater) Provided to BRAC Clean-		February 12, 1997
up Team (EPA R3 and State), January 16, 1997		
Industrial Corridor Risk Assessment	Versar	16-Dec-98
RCRA Facility Assessment	CH2MHill	Sep-99
Community Relations Plan	US Army Corps of Engineers ICF	Jun-00
Dublic Health Assessment	Kaiser/General Physics	40 Nov 00
Public Health Assessment	Dept. of Health & Human Services,	10-Nov-99
	Agency for Toxic Substances and Disease Registry	
RAB Meeting Minutes	US Army	9/96 to 2003
Partnering Meeting Summaries	US Army	1997 to 2003
Technical and Sampling/Analysis Plan	U.S. Army Toxic and Hazardous	Feb-90
	Material Agency	
	EA Engineering	
Preliminary Assessment Report Addendum	US Army Toxic and Hazardous	Mar-92
·	Material Agency	
	Roy F. Weston, Inc.	

Title	AUTHOR	DATE
Preliminary Assessment Report	US Army Toxic and Hazardous	Nov-90
	Material Agency	
	Roy F. Weston, Inc.	
Summary Report Pump Test for Site-Wide	USACE/Dames & Moore	Mar-00
Groundwater Investigation		
Generic Field Sampling Plan	USACE/EM Federal	Mar-03
Soil Background Concentration Report	USACE/Malcolm Pirnie	Oct-01
Generic Site Safety & Heath Plan	USACE/EM Federal	Jun-02
Generic Quality Assurance Plan	USACE EM Federal	Mar-03
Remedial Investigation Work Plan - Golf Course	Versar, Inc.	28-Oct-03
Maintenance Facility Buildings 8860, 8870, 8880,		
8890 and 8890A		
SWMUs 131-137		
Solid Waste Management Unit	Versar, Inc.	2-May-02
Project Work Plans		
Data Gap Sites		
Solid Waste Management Unit Study	BCM Engineers	Jun-96
Sampling Visits	Versar, Inc.	16-Sep-99
Solid Waste Management Units		
Vol I		
Sampling Visits	Versar, Inc.	16-Sep-99
Solid Waste Management Units		
Vol II		
Sampling Visits	Versar, Inc.	Sep-99
Solid Waste Management Units		
Vol III		
Sampling Visits	Versar, Inc.	Sep-99
Solid Waste Management Units		
Vol IV		
Sampling Visits	Versar, Inc.	Sep-99
Solid Waste Management Units		
Vol V	Managa Ing	0
Sampling Visits	Versar, Inc.	Sep-99
Solid Waste Management Units Vol VI		
Sampling Visits (23 Additional Solid Waste	Versar, Inc.	7-Jul-00
Management Units)	Versar, Inc.	/ -Jul-00
Vol I and II		
Site Investigation Report - Former Wash Pack and	Versar, Inc.	14-Aug-01
Oil Separator at Building 940 (SWMUs 12/13)	Vorsar, mo.	TH Aug 01
Site Investigation Report - Building 1251 (SWMU	Versar, Inc.	13-Jul-01
19)	1 3.33.,	
Site Investigation Report - Building 2120C (SWMU	Versar, Inc.	30-Oct-01
25)		
Site Investigation Report - Building 2121 (SWMUs	Versar, Inc.	26-Oct-01
29/30)		
Site Investigation Report - Building 2213 SWMU 38	Versar, Inc.	14-Aug-01
	<u> </u>	
Site Investigation Report - Building 2220 SWMU 42	Versar, Inc.	14-Aug-01
Site Investigation Report - Building 2240 SWMUs	Versar, Inc.	14-Sep-01
45/46		
	Et GG Meade	- Installation Action Plan

Title	AUTHOR	DATE
Site Investigation Report - Building 2253 (SWMUs	Versar, Inc.	13-Jul-01
61/62)	Voidar, mo.	
Site Investigation Report - Building 2276 (SWMUs	Versar, Inc.	14-Sep-01
63/64)	Vorcar, mo.	11 Cop 01
Site Investigation Report - Building 2286 (SWMUs	Versar, Inc.	14-Sep-01
66/67)	Vorsar, mo.	14 000 01
Site Investigation Report - Building 2482 (SWMU	Versar, Inc.	13-Jul-01
72)	Vorcar, mo.	
Site Investigation Report - Building 2630 (Wash	Versar, Inc.	13-Jul-01
Rack) SWMU 78	Vorsar, mo.	
Site Investigation Report - Building 2724 (SWMUs	Versar, Inc.	7-Dec-01
80 through 86)	Vorear, me.	1 200 01
Site Investigation Report - Wash Racks at Building	Versar, Inc.	14-Dec-01
2728 SWMUs 87, 88, 89, 90, 91, 92	Vorear, me.	11 200 01
Site Investigation Report - Building 4587 SWMO	Versar, Inc.	7-Dec-01
101/102	l ordar, mer	. 200 0 .
Site Investigation Report - Building 4680, SWMU	Versar, Inc.	7-Dec-01
103	1 0.00.,	. 2000.
Site Investigation Report - Former Wash Rack at	Versar, Inc.	14-Sep-01
Building 8480 (SWMUs 110/111)	1 0.00.,	
Site Investigation Report - Building 8485, SWMU	Versar, Inc.	2-Nov-01
115/116		
Site Investigation Report - Wash Rack Building	Versar, Inc.	7-Nov-01
8485 SWMU 116A		
Site Investigation Report - Building 8486 SWMVs	Versar, Inc.	2-Nov-01
117/118	,	
Site Investigation Report - Building 8549 SWMUs	Versar, Inc.	14-Sep-01
121/124		
Site Investigation Report - Building 8688 SWMUs	Versar, Inc.	14-Aug-01
129/130		
Site Investigation Report - Golf Course	Versar, Inc.	18-Dec-01
Maintenance Area Buildings 8860, 8880, 8890 and		
8896		
SWMVs 131-133 and 135-137		
Site Investigation Report - Wash Rack at 4th and Y	Versar, Inc.	13-Jul-01
Streets, SWMUs 143/144		
Site Investigation Report - Building 6513, SWMU	Versar, Inc.	14-Aug-01
150		
Site Investigation Report - Building 2266	Versar, Inc.	6-Sep-02
Site Investigation Report - O'Brien Road	USACE	15-Mar-02
	URS	
Comprehensive Site Assessment - Former	Versar, Inc.	8-Jun-99
Incinerator Building		
21-1/2 Street		
Comprehensive Site Assessment - Former Battery	Versar, Inc.	8-Jun-99
Disposal Facility Morrison Street		
Sampling Visit - Building 8881	Versar, Inc.	13-Sep-99
Work Plan	Versar, Inc.	30-Mar-00
Initial Delineation Activities		
Impacted Solid Waste Management Units		

Title	AUTHOR	DATE
Draft Initial Delineation Report	Versar, Inc.	31-Aug-00
Department of Logistics Tactical & Support		0.7.09
Vehicle/Heavy Equipment Maintenance Facility		
Draft Initial Delineation Reports	Versar, Inc.	12-Sep-00
Department of Logisitcs, Storage Services and		.= 00p 00
Supply Division Complex, Pepper Road		
Draft Initial Delineation Reports	Versar, Inc.	12-Sep-00
Department of Public Works Storage Yard, 2nd		1 - 3 op 33
Street		
Draft Initial Delineation Reports	Versar, Inc.	12-Sep-00
Directorate of Office Management Complex,	,	'
20th Street		
Draft Initial Delineation Reports	Versar, Inc.	12-Sep-00
The Photo Lab (Bldg 546) and Former Vehicle		
Maintenance Shop (Bldg 2227)		
Draft Initial Delineation Reports	Versar, Inc.	12-Sep-00
Wash Rack Oil/Water Separator at Equipment		
Concentration Station 86 (Bldg 2120C), Heavy		
Equipment and Generator Maintenance Shop (Bldg		
2128) and Forensic Toxicology Drug Testing Lab		
(Bldg 2490)		
Draft Initial Delineation Reports Equipment/Vehicle	Versar, Inc.	12-Sep-00
Storage Yard Wash Rack System (Bldg 1007), 20th	•	'
Street, and Dept. of Public Works Storage and		
Receiving Yard (Bldg 2207), 1st Street		
Remedial Investigation Work Plan - Former Heavy	USACE	21-May-03
Gun Cleaning and Repair Shop (FGGM92)	Versar, Inc.	
Buildings 2246 and 2253	, i	
Remedial Investigation Work Plan - Former Motor	USACE	02-May-03
Pool Maintenance Facility (FGGM86) Building 2286	Versar, Inc.	
Remedial Investigation Work Plan - Former Nike	USACE	13-Jun-03
Missile Control Site (FGGM87) Buildings 1945,	Versar, Inc.	
1946, 1957, 1958, 1974, 1976, 1977, 1978 and		
1990		
Remedial Investigation Work Plan - Former Tank	USACE	21-Jul-03
Maintenance Facility (FGGM88) Building 2207	Versar, Inc.	
Remedial Investigation Work Plan - Former Tank	USACE	25-Jul-03
Maintenance Facility (FGGM89) Building 2217	Versar, Inc.	
Remedial Investigation Work Plan - Former Tank	USACE	04-Jun-00
Cleaning Supply Warehouse (FGGM90) Buildings	Versar, Inc.	
2240 - 2243 and 2247 - 2249		
Remedial Investigation Work Plan - Golf Course	USACE	28-Oct-03
Maintenance Facility Buildings 8860, 8870, 8880,	Versar, Inc.	
8890 and 8890A		
SWMUS 131-137		
Remedial Investigation Report and Appendices -	U.S. Army Toxic and Hazardous	Dec-92
Active Sanitary Landfill and Clean Fill Dump	Material Agency	
	EA Engineering, Science and	
	Technology, Inc.	

Title	AUTHOR	DATE
Work Plan Feasibility Study and Remedial	USAEC	19-Nov-93
Investigation/Site Inspection RI/SI Addendum -	Arthur D. Little	
Inactive Landfill No. 2		
DPDO Salvage Yard and Transformer Storage		
Helicopter Hangar Area		
Fire Training Area		
Ordnance Demolition		
Active Sanitary Landfill		
Clean Fill Dump		
Quality Control Plan Feasibility Study and Remedial	USAEC	19-Nov-93
Investigation/Site Inspection RI/SI Addendum	Arthur D. Little	
Health and Safety Plan	U.S. Army Environmental Center	19-Nov-93
Feasibility Study and Remedial Investigation/Site	Arthur D. Little	
Inspection Addendum - Inactive Landfill No. 2		
DPDO Salvage Yard and Transformer Storage		
Helicopter Hangar Area		
Fire Training Area		
Ordnance Demolition		
Active Sanitary Landfill		
Clean Fill Dump		
Ordnance Survey Report	USAEC	Jun-94
1400 Acre Parcel - 500-acre Dept. of Interior Parcel	International Technology Corp.	
Tipton Army Airfield Parcel		
Active Sanitary Landfill Parcel		44.4 04
Cell 2 Modifications - Active Sanitary Landfill	LLC Asset Contants at Llocath	11-Aug-94
Initiation of Detection Monitoring Program - Active	U.S. Army Center for Health	Sep-94
Sanitary Landfill	Promotion and Preventive Medicine USAEC	16 Con 04
Feasibility Study Report - Active Sanitary Landfill	Arthur D. Little	16-Sep-94
Residential Wells Data - Active Sanitary Landfill	USAEC	13-Oct-94
Tresidential Wells Data Metive Garitary Landilli	Arthur D. Little	10 000 04
Remedial Investigation Addendum - Active Sanitary		May-97
Landfill	Arthur D. Little	may or
Comment-Response Package for Off-Post Drilling	USAEC	1-Mar-98
Report - Active Sanitary Landfill	Arthur D. Little	
, ,		
Atrazine Study Feasibility Study and Remedial	Arthur D. Little	Mar-99
Investigation Site Inspection - Active Sanitary	USAEC	
Landfill		
Off-Post Drilling and Sampling Results and Surface		Mar-99
Water Sampling Results Feasibility Study and	Arthur D. Little	
Remedial Investigation/Site Inspection - Active		
Sanitary Landfill		
Clean Fill Dump	110405	14 00
Groundwater Database Report - Active Sanitary	USACE	Mar-99
Landfill	Malcolm Pirnie	1.1.04
Results from May 2001 Sampling of Monitoring Well		Jul-01
MW-4DR - Active Sanitary Landfill	Management Technologies	

Title	AUTHOR	DATE
Groundwater Remedial Investigation	IT Corp/Advanced Infrastructure	Nov-01
Work Plan Addendum - Active Sanitary Landfill	Management Technologies	1400-01
Post Laundry Facility - Safety & Health Program	Versar, Inc.	02-Jun-95
Site Specific Safety and Health Plan	versar, mc.	02-3011-33
Subsurface Investigation		
Post Laundry Facility - Additional Subsurface	Versar, Inc.	27-Sep-95
Investigation Activities	Versar, mc.	27-3ep-95
Post Laundry Facility - Additional Subsurface	USACE	Apr-97
Investigation Activities	OSACE	Αρι-91
Post Laundry Facility - January 1999 Quarterly	Versar, Inc.	1-Mar-99
Groundwater Sampling Results	Versar, mc.	1-Ivia1-99
Post Laundry Facility - May 1999 Quarterly	Versar, Inc.	24-Jun-99
Groundwater Sampling Results	Versar, mc.	24-3011-99
Post Laundry Facility - December 1999 Quarterly	Versar, Inc.	20-Dec-99
Groundwater Sampling Results	Versar, mc.	20-Dec-99
Post Laundry Facility - Comprehensive Site	Versar, Inc.	20-Oct-00
Assessment	versar, mc.	20-001-00
Volume I of II		
Post Laundry Facility - Response to EPA	Versar, Inc.	10-Jan-02
Comments on Final	versar, mc.	10-3411-02
Comprehensive Site Assessment	LIC American dilleganders	0-4-00
Site Inspection	US Army Toxic and Hazardous	Oct-92
Volumes I - III - Ordnance Demolition Area	Material Agency	
Clean Fill Dump	EA Engineering	
Fire Training Area		
Inactive Landfill No. 1		
Inactive Landfill No. 2		
Inactive Landfill No. 3		
DPDO Salvage Yard	LICATO	40 Nov. 00
Health & Safety Plan - DRMO	USAEC	19-Nov-93
Wards Diag	Arthur D. Little	40 No. : 00
Work Plan	USAEC	19-Nov-93
Feasibility Study and Remedial Investigation/Site	Arthur D. Little	
Inspection Addendum - Inactive Landfill No. 2		
DPDO Salvage Yard and Transformer Storage		
Helicopter Hangar Area		
Fire Training Area		
Ordnance Demolition		
Active Sanitary Landfill		
Clean Fill Dump	LICATO	10 Nov 02
Quality Control Plan Feasibility Study and Remedial		19-Nov-93
Investigation/Site Inspection RI/SI Addendum	Arthur D. Little USAEC	01 May 05
DRMO - Quality Control Plan Remedial		01-May-95
Investigation and Feasibility Study of the Defense	Engineering Technologies	
Property Disposal Office DRMO - Technical Work Plan Remedial	Associates, Inc. USAEC	Mov 05
		May-95
Investigation/Feasibility Study	Engineering Technologies	
DRMO Cominglatile Deckare	Associates, Inc.	11 Con 05
DRMO - Semivolatile Package	GP Environmental Services, Inc.	11-Sep-95
Metals Package Metals Case Narrative	GP Environmental Services, Inc.	18-Sep-95

Title	AUTHOR	DATE
Site Inspection Addendum Report - Defense	USAEC	Dec-95
Reutilization And Marketing Office	Arthur D. Little	
Inactive Landfill No. 2		
Helicopter Hangar Area		
Fire Training Area		
Ordnance Demolition		
Soldiers Lake		
DRMO - Phase One HTRW (SCAPS) Investigation	USACE	Apr-97
DRMO - Sampling Report Environmental Sampling	USACE	Dec-96
Activities		
DRMO - Environmental Sampling	USACE	Mar-97
DRMO - Response to Specific Comments-EPA		08-Aug-97
DRMO - Response to Specific Comments-MDE		12-Aug-97
DRMO - Work Plan Phase Two	USACE	Sep-97
HTRW Investigation		
DRMO - Summary Report	USACE	09-Apr-98
Drilling & Testing Activities	Dames & Moore	
Phase II Groundwater Investigation		
DRMO - Final Quality Control Plan Remedial	USAEC	30 Dec-94
Investigation/Feasibility Study	Engineering Technologies	May-95
	Associates, Inc.	
DRMO - Remedial Investigation and Baseline Risk	URS	10-Jul-03
Assessment	USACE	
Architect of Capitol - Quality Control	USACE/Malcolm Pirnie	Mar-02
Summary/Analytical Results		
Vols I-V		
Architect of Capitol - Remedial Investigation Report	USACE/Malcolm Pirnie	Oct-01
Vols I-II		
Architect of Capitol - Work Plan	USACE/Malcolm Pirnie	Mar-00
Part II -Quality Assurance Project Plan		
Remedial Investigation		
Architect of Capitol - Work Plan	USACE/Malcolm Pirnie	Nov-00
Part I -Field Sampling Plan		
Remedial Investigation		
Architect of Capitol - Work Plan	USACE/Malcolm Pirnie	Mar-00
Part III -HASP		
Remedial Investigation		
Architect of Capitol - Initial Phase I Report	Rummel, Klipper & Kahl	19-May-94
Site Assessment of 100-Acre Parcel		
Former Trap And Skeet Range	Versar, Inc.	10-Jun-99
(20th Street) - Comprehensive Site Assessment		4-5
Former Trap And Skeet Range	Versar, Inc.	17-Dec-02
(20th Street) - Corrective Action Plan		

## Fort Meade and Phoenix Military Reservation ER,A ELIGIBLE OPEN SITES

#### FGGM 05 TROOP BOILER PLANT

#### SITE DESCRIPTION

The Troop Housing Boiler Plant (Bldg 8481) is located on Simonds Street and remained in operation until 2001. The existing tanks and facility were removed in FY04. There were 4 USTs that contained waste oil and fuel oil with a total capacity of 55,550 gallons, one remains. In 1991, a 20,000 gallon No. 2 fuel oil tank was abandoned in place. Monitoring wells were required by the state and contamination was found. The State issued a NOV in June 1992 for the site, calling for the installation of a recovery system. The system was in operation between 1994 and 1997. Operations were discontinued because the system design could not accomodate changes in groundwater levels. A Solar Powered Oil Removal Skimmer System was installed in August 2001. Product recovery will continue until MDE determines that no additional actions are required. The following tanks were removed as specified:

Tank A	275 gl	Removed Aug 91
Tank B	20,000 gl	Removed Aug 91
Tank C	15,000 gl	Removed Oct 2000
Tank D	15,000 gl	Removel May 98
Tank E	20,000 gl	Removed Oct 2000
Tank F	550 gl	Removed May 98

#### **STATUS**

RRSE RATING: High CONTAMINANTS:

#2 Fuel Oil

**MEDIA OF CONCERN:** 

Groundwater

**COMPLETED IRP PHASE:** 

PA/SI, RI/FS, RD, RA

**CURRENT IRP PHASE:** 

RA(O)

**FUTURE IRP PHASE:** 

**PBC** 

#### PROPOSED PLAN

Anticipate land re-use: Building 8481 (FGGM-05) razed in FY04. Comprehensive expansion master plan calls for the relocation of the military clothing store to this location (land re-use is commercial).

#### FGGM 07 DRMO DRUM SITE

#### SITE DESCRIPTION

During the 1995 construction of a new building at the DRMO scrap yard, a large number of metal drums containing unknown substances were discovered. Excavation operations discovered approximately 190 drums, 4 transformers/electrical boxes, and 7 decontamination drums. A groundwater plume beneath the burial area extends several hundred feet south of the source onto Department of Interior property. Most recent investigations have delineated the plume. A Feasibility Study evaluating several remedial alternatives was published in 2004.

#### PROPOSED PLAN

Continue with current operations.

#### **STATUS**

RRSE RATING: High

**CONTAMINANTS:** Polychlori-

nated Biphenyls, VOCs **MEDIA OF CONCERN:** 

Groundwater

**COMPLETED IRP PHASE:** 

PA/SI, IRA (2), RI

**CURRENT IRP PHASE:** 

RI/FS

**FUTURE IRP PHASE:** 

**PBC** 

#### FGGM 13 PEST. SHOP BLDG. 6621

#### SITE DESCRIPTION

The former Building 6621 was located at the southwest corner of the York Avenue and Gordon Street intersection. The structure was historically used as the Installation's pesticide shop. The structure was used regularly for the storage and mixing of pesticides from 1958 to 1978. In 1978, pesticide operations were transferred to Building 294. In 1996, the building was demolished and the site regraded. Pesticide contaminated soils were spread across the area. A site assessment was conducted in 1997. The site is contaminated with DDD and DDT at levels exceeding Industrial Risk Based Screening Criteria. A Remedial Investigation is planned for FY05. Excavation estimates used to derive removal estimates are based on best available data on hand, professtinal estimates of contaminated soil, and hazardous waste disposal costs.

#### **STATUS**

RRSE RATING: High CONTAMINANTS:

**Pesticides** 

**MEDIA OF CONCERN:** 

Soil

**COMPLETED IRP PHASE:** 

PA/SI

**CURRENT IRP PHASE:** 

RI/FS

**FUTURE IRP PHASE:** 

RD/RA

#### PROPOSED PLAN

Complete RI/FS (FY05). Installation assumes excavation and disposal of contaminated soil as hazardous waste. Future development of land parcel is anticipated.

## FGGM 17 CLOSED SANITARY LANDFILL

#### SITE DESCRIPTION

The closed sanitary landfill (CSL) is made up of 130 acres and was constructed as an unlined facility in 1958. The trench fill method was used from 1958-1976 and the area fill method was used from 1976-1996 until the landfill was officially closed and capped.

A detection of carbon tetrachloride in an upgradient landfill monitoring well was discovered in the lower Patapsco Formation Aquifer. Detections exceed MCLs for this constituent. To date, Ft. Meade has installed 24 wells in the lower Patapsco Formation in an attempt to identify a point source of carbon tetrachloride. A point source could not be indentified. The Army plans to include this data for the Closed Sanitary Landfill RI. Contaminants of concern associated with the contents of the Closed Sanitary Landfill will also be evaluated. Monitoring of wells in the upper and lower aquifers continues per RCRA solid waste closure requirements.

#### **STATUS**

RRSE RATING: High CONTAMINANTS:

VOCs, Metals, Pesticides **MEDIA OF CONCERN**:

Groundwater, Soil

**COMPLETED IRP PHASE:** 

PA/SI, IRA

**CURRENT IRP PHASE:** 

RI/FS

**FUTURE IRP PHASE:** 

RI/FS, LTM

#### PROPOSED PLAN

Concentrations of VOCs are present hydraulically upgradient of the CSL. Based on investigations conducted to date it is not likely a point source will be identified. The RI/FS will be completed. Land Use Controls are anticipated.

#### FGGM 33 BATTERY SHOP BLDG 2283

#### SITE DESCRIPTION

Building 2283, constructed in 1941, was originally used as a motor repair shop or storage facility. The site was used for battery maintenance and repair operations from 1982 to 1990. From 1982-1985, battery acid was drained from a bermed area on the floor to soils behind the building. A neutralization tank containing limestone chips was installed behind the building in 1985 and for two years battery acid was discharged into the tank. Battery acid discharge ended in 1987; however, battery rinsing and cleaning operations continued with the discharge going into the ground. All battery operations ended in July 1990. Initial soil samples taken in 1990 and 1991 showed elevated lead levels, constituting a removal action in 1992. Site characterization began in March 1993 and interim remedial actions were completed by the end of 1993. A follow-up SI was completed in FY99/00 to aide in site closure.

#### **STATUS**

RRSE RATING: High CONTAMINANTS:

Lead

**MEDIA OF CONCERN:** 

Soil, Groundwater

**COMPLETED IRP PHASE:** 

PA/SI, IRA

**CURRENT IRP PHASE:** 

RI/FS

**FUTURE IRP PHASE:** 

RC

#### **PROPOSED PLAN**

Closure documentation will be completed.

#### FGGM 47 POST LAUNDRY BLDG 2250

#### SITE DESCRIPTION

Building 2250 was constructed in the 1940s during World War II and remained a laundry/dry cleaning facility until the mid-1980s. After its closure, the existing facility was converted to a recycling center. Initial soils investigations indicated elevated levels of PCE (2,000 ppb) were present in soils; 45,000 ppb in groundwater; and 410 ppb in surface water. A soil gas survey was completed in 1990 to further define the extent of contamination. Due to the soil gas results, vadose zone soil sampling and groundwater sampling was scheduled. Groundwater monitoring wells were not installed because groundwater was not encountered above a clay layer found throughout the site. Based on this study, there appeared to be no significant impact to the substrate and the nearest shallow groundwater had not been affected. In 1994, MDE issued a corrective action order requiring Fort Meade to perform an investigation and to delineate the nature and extent of the problem. A comprehensive site investigation was completed to comply with the order.

#### **STATUS**

RRSE RATING: High CONTAMINANTS:

**PCE** 

**MEDIA OF CONCERN:** 

Groundwater

**COMPLETED IRP PHASE:** 

PA/SI

**CURRENT IRP PHASE:** 

RI/FS

**FUTURE IRP PHASE:** 

PBC

#### PROPOSED PLAN

Conduct additional investigation and corrective action.

## FGGM 74 ARCHITECT OF THE CAPITAL

#### SITE DESCRIPTION

This site is a 100 acre parcel of land bounded by Maryland Route 32 to the south, Rock Avenue to the north, Pepper Road to the east, and Remount Road to the west. Area includes warehouse facilities, USTs, and one motor pool. This property was deeded to the Architect of the Capital in October 1994, for the future construction of an archive facility for the Library of the Congress. The Army is responsible for investigating the environmental condition of the property and to restore the property as necessary in accordance with existing environmental laws and regulations. During FY00, a follow-on SI was conducted, showing low levels of SVOCs, metals and pesticide exceeding EPA Region III risk screening criteria.

#### **STATUS**

RRSE RATING: High CONTAMINANTS:

POL, SVOCs, METALS, PESTI-

CIDE

**MEDIA OF CONCERN:** 

Groundwater, Soil

**COMPLETED IRP PHASE:** 

PA/SI

**CURRENT IRP PHASE:** 

RI/FS

**FUTURE IRP PHASE:** 

LTM

#### PROPOSED PLAN

An RI/FS investigation is underway at this site. The Army assumes that Long Term Monitoring will be required in the outyears.

#### FGGM 78 GRANITE NIKE

#### SITE DESCRIPTION

This is a former Nike-Hercules Missile Control site located in Granite, MD. Fort Meade is responsible for performing the necessary environmental investigations prior to excess.

#### PROPOSED PLAN

Submit request to MDE for site closure.

#### **STATUS**

RRSE RATING: High CONTAMINANTS:

Metals

**MEDIA OF CONCERN:** 

Groundwater

**COMPLETED IRP PHASE:** 

PA/SI, IRA

**CURRENT IRP PHASE:** 

RC

**FUTURE IRP PHASE:** 

RC

#### FGGM 83 TRAP AND SKEET RANGE

#### SITE DESCRIPTION

This site (~66 acres) was discovered during an Environmental Baseline Survey. In September 1998, a contract was awarded to investigate the site. Since that time, two separate SIs have been conducted. Both studies revealed the presence of lead and PAHs above the risk-based concentration levels. An Engineering Evaluation and Cost Analysis (EECA) to evaluate the feasibility of a removal action will be completed FY04.

#### **PROPOSED PLAN**

Continue investigation and remediation.

#### **STATUS**

RRSE RATING: High CONTAMINANTS:

PAHs, Metals

**MEDIA OF CONCERN:** 

Soil, Sediment, Surface Water

**COMPLETED IRP PHASE:** 

PA/SI, IRA

**CURRENT IRP PHASE:** 

NONE

**FUTURE IRP PHASE:** 

**PBC** 

## FGGM 86 FORMER MOTORPOOL MAINTENANCE FACILITY

#### SITE DESCRIPTION

BLDG 2286 - This site was identified in a 1994 solid waste management unit study and further evaluated in two separate SIs during FY99 and FY00 respectively. Historical review of records has indicated that this site was constructed as a motor pool maintenance facility and therefore is being investigated under these criteria. Remedial investigation fieldwork for Bldg 2286 commenced in FY04. Preliminary data suggests that a groundwater plume extends to and around Bldg 2276. The size of the plume is roughly double what was anticipated. VOCs are present in the groundwater plume in the ppm range. Metals and TPH in soil have been identified in SI level investigations.

#### **STATUS**

RRSE RATING: Low CONTAMINANTS:

VOCs, Heavy Metals, TPH **MEDIA OF CONCERN:** 

Groundwater

**COMPLETED IRP PHASE:** 

PA/SI

**CURRENT IRP PHASE:** 

RI/FS

**FUTURE IRP PHASE:** 

PBC

#### PROPOSED PLAN

Additional RI work is required to delineate the nature and extent of the problem. It is anticipated that action at the site will be required for groundwater. Anticipated actions may include in-situ groundwater remediation (chemical or microbial in-situ destruction).

## FGGM 87 FORMER NIKE CONTROL SITE

#### SITE DESCRIPTION

The Former NIKE Fire Control Site was constructed in 1955, and supported NIKE missile activities until 1972. The four building complex is presently used as the Directorate of Information Management for Fort Meade. This site was identified in a 1994 solid waste management unit study and further evaluated in two separate SIs during FY99 and FY00 respectively. Investigations identified exceedences of SVOCs, arsenic and TPH in soils, and VOCs, SVOCs, metals, and TPH in groundwater. Further action under CERCLA is required. A remedial investigation is fully funded (FY04) and is expected to be completed by the first quarter of FY05.

#### **STATUS**

RRSE RATING: Medium

**CONTAMINANTS:** 

SVOCs, VOCs, Metals, TPH

**MEDIA OF CONCERN:** 

Groundwater, Soil

**COMPLETED IRP PHASE:** 

PA/SI

**CURRENT IRP PHASE:** 

RI/FS

**FUTURE IRP PHASE:** 

RI/FS, RD, RA(C), RA(O)

#### PROPOSED PLAN

A Feasibility Study will be completed in FY06. The Remedial Design and Remedial Action construction to be completed in FY07, to include expected hot spot removal and in-situ microbial or chemical destruction.

## FGGM 88 FORMER TANK MAINTENANCE FACILITY SHOP-1

#### SITE DESCRIPTION

This site was identified in a 1994 solid waste management unit study and further evaluated in two separate SIs during FY99 and FY00 respectively. Originally constructed to support tank maintenance activities, this facility now acts as a warehouse. This site will be reviewed by the Tier I Partnering Team regarding future action. The Department of Public Works (DPW) Storage and Receiving Yard is located approximately 150 feet southwest of the intersection of 1st Street and Chisholm Avenue. Current land use at the site is for maintenance. Future land use is administration.

The site includes Building 2207 (SWMU 37, DPW Storage and Receiving Warehouse), Building 2201 (DPW Storage and Supply Warehouse), Building 2206 (offices), Building 2204 (storage building), and Building 2200 (metal canopy for outdoor storage). Constructed in 1918, Building 2207 was used as a tank maintenance facility prior to 1973. Since at least the mid-1980s, it has been in use by the DPW

#### **STATUS**

RRSE RATING: High CONTAMINANTS:

Metals, TPH

**MEDIA OF CONCERN:** 

Soil, Groundwater

**COMPLETED IRP PHASE:** 

PA/SI

**CURRENT IRP PHASE:** 

RI/FS

**FUTURE IRP PHASE:** 

**PBC** 

as a receiving and storage facility. It is currently used for receiving materials for distribution to other facilities (main floor), and storing supplies such as filters, light bulbs, and pipe clamps (upper floor). The grounds are also used for storage of construction materials, refrigerators, non-PCB-containing transformers, and fluorescent light bulbs. Records indicate that a spill had occurred from a transformer in the yard; however, the material was tested and found not to contain PCBs.

Investigations conducted at the site to date identified exceedances of screening criteria for the following compounds in soil: arsenic, TPH- diesel; and groundwater: arsenic, and TPH.

#### PROPOSED PLAN

Out-years may require continued investigation and remediation.

#### FGGM 89 FORMER TANK MAINTENANCE FACILITY SHOP-2

#### SITE DESCRIPTION

The Department of Logistics (DOL) Electric Shop Building 2217, SWMU 39 and the Department of Public Works (DPW) Storage Yard are located on 2<sup>nd</sup> Street between Pepper Road and Chisholm Avenue. Current and future land uses at the site is maintenance.

Building 2217 is located in the southeast corner of the site. A former wash rack (SWMU 41) and a former oil/water separator (SWMU 40) were located in the northwest corner of the site. The asphalt and gravel yard is currently used for storage of electrical transformers (non-PCB), electrical cables, boilers, water heaters, dishwashers, motors, and other equipment and machinery.

Constructed in 1918, Building 2217 was used as a tank maintenance facility until 1973. The building is currently used for storage of military vehicles, equipment, and small motors. The associated wash rack was used to wash vehicles and construction equipment; waste wash water was discharged to the oil/water separator and then to the

sanitary sewer system. The wash rack and oil/water separator were demolished and removed in 1999 or 2000.

#### **STATUS**

RRSE RATING: Low CONTAMINANTS:

Metals, TPH

**MEDIA OF CONCERN:** 

Groundwater, Soil

**COMPLETED IRP PHASE:** 

PA/SI

**CURRENT IRP PHASE:** 

RI/FS

**FUTURE IRP PHASE:** 

**PBC** 

Investigations conducted at the site to date identified exceedances of screening criteria for the following compounds: in soil: arsenic, TPH- diesel; and groundwater: arsenic, beryllium, copper, lead thallium, VOCs (benzene; naphthalene; n-propylbenzene; chlorobenzene; 1,4-dichlorobenzene; 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene), TPH-gasoline and TPH –diesel.

#### PROPOSED PLAN

Out-years may require continued investigation and remediation.

#### FGGM 90 FORMER TANK CLEANING SUPPLY WAREHOUSE

#### SITE DESCRIPTION

The Department of Logistics (DOL) Storage Services and Supply Division Complex is located in the northwest quadrant of the intersection of Pepper Road and Rock Avenue. Current and anticipated future land use is for maintenance operations.

The complex includes Buildings 2240(SWMUs 45, 46), 2241 (SWMUs 47, 48), 2242 (SWMUs 49, 50), 2243, 2247, 2248 (SWMUs 51, 52), and 2249 (SWMUs 53, 54). Building 2240 (DOL Laundry and Dry Cleaning Services) is a separate single-story brick structure. Buildings 2241, 2242, and 2243 are connected in sequence and are elevated on wooden piers. Buildings 2247, 2248, and 2249 are smaller, wooden garage-type structures located behind the larger buildings. Other features on the site include a propane storage pen (Building 2247A), a flammable gas storage pen (Building 2248A), an empty compressed gas storage pen north of Building 2249, and a former 1,000-gallon AST storing No. 2 fuel oil located behind Building 2242, removed in 1995.

#### **STATUS**

RRSE RATING: Medium

**CONTAMINANTS:** 

PAHs, TPH, Inorganics

**MEDIA OF CONCERN:** 

Groundwater, Soil

**COMPLETED IRP PHASE:** 

PA/SI

**CURRENT IRP PHASE:** 

RI/FS

**FUTURE IRP PHASE:** 

**PBC** 

Constructed in 1934, Building 2240 has been used as a storage and supply facility since construction in 1934, and currently is a receiving/transfer location for computer equipment and laundry/dry cleaning. Buildings 2241 and 2242 were constructed in 1918 and have always been used for receiving and short-term storage of supplies and materials before shipping. The receiving areas stored a variety of lube oil cleaners, degreasers, carbon removers, detergent cleaners, and waxes; vehicle batteries and electronic components have also been stored recently. Building 2247, constructed in 1941, currently stores surplus office furniture but formerly stored hazardous materials. Buildings 2248 and 2249, also constructed in 1941, were formerly used as standard ordnance shops and as storehouses. Both are currently used for furniture storage. A railroad line once crossed the site, but is not currently apparent.

Investigations conducted at the site identified the following exceedances of screening criteria:

#### Building 2240

- Soil
- Building 2240: Arsenic exceeded its RBCs and background mean in the only sample tested.
- Buildings 2241, 2242, 2248, 2249: Arsenic exceeded its RBCs and background mean in at least one of 23 locations tested. However, detection limits exceeded both RBC-residential and RBC-industrial.
- Groundwater
- VOCs (methylene chloride, PCE) exceeded their RBCs and the MCL for PCE in three wells west of the building.
- SVOCs (bis(2-ethylhexyl)phthalate; benzo(a)anthracene; benzo(b)fluoranthene; benzo(k)fluoranthene;
   benzo(a)pyrene; indeno(1,2,3)pyrene) exceeded their RBCs, primarily in one well east of the building, but detection limits for other locations were above RBCs and MCLs. Benzo(a)pyrene also exceeded its MCL.
- Dissolved metals: Arsenic exceeded its RBC but not its MCL in one well. Total metals: arsenic, cadmium, copper, lead, mercury, and thallium exceeded their MCLs in well SB7; chromium, lead, and mercury exceeded their MCLs in well SB11.
- TPH-diesel exceeded its draft MDE screening criterion in three wells (but the detection limit was above the screening criterion).
- Two herbicides (MCPP and MCPA) exceeded their RBCs in well SB7 (but detection limits at other locations were above RBCs).
- One pesticide (hepatachlor epoxide) exceeded its RBC and its MCL in one well (but the detection limit at other locations was above the RBC).

## FGGM 90 FORMER TANK CLEANING SUPPLY WAREHOUSE (PAGE 2)

Buildings 2241, 2242, 2248, 2249

- Soil: Arsenic exceeded RBCs and background mean in at least one of 23 locations tested. However, detetion limits exceeded both RBC-residential and RBC-industrial.
- Groundwater
- Three VOCs (PCE, TCE, and vinyl chloride) exceeded their RBCs and MCLs at up to 12 locations. PCE and TCE detection limits were above RBCs, and the vinyl chloride detection limit was above both its RBC and its MCL.
- One SVOC (bis(2-ethylhexyl)phthalate) exceeded its RBC in at least one well, but the detection limit at other locations was above the RBC.
- Metals
- Dissolved: Arsenic exceeded its RBC but not its MCL in at least two of five locations tested, but detection limits were above the RBC.
- Total: At 19 of 20 locations, up to five total metals (arsenic, cadmium, copper, nickel, and thallium) ex ceeded their RBCs. At 17 of 20 locations, up to five total metals (arsenic, cadmium, copper, lead, and thallium) exceeded their MCLs.
- TPH-diesel exceeded its draft MDE screening criterion in at least three of 20 locations, but the detection limit was above the draft screening criterion.

#### PROPOSED PLAN

Out-years may require continued investigation and remediation.

#### FGGM 91 FORMER MISSLE REPAIR SHOP

#### SITE DESCRIPTION

Building 2220, located approximately 150 feet north of the intersection of 2<sup>nd</sup> Street and Pepper Road, is used as an electronic maintenance and equipment calibration shop. It was also used in the past as a missile repair shop in the 1960s, and as a warehouse and as a troop-training center. Current and future land uses at the site are designated as "maintenance."

No hazardous chemicals are currently in use at the facility. Past activities in the building have used solvents and produced solvent waste. Small amounts of cleaning solvent and gasoline were formerly stored in a shed outside the building. Two fuel oil USTs were formerly located at the south side of the building; one was removed in 1992, and the other was emoved and replaced in 1988 then removed in 1997. During the 1988 UST removal, corrosion holes were noted at the end of the tank. EMO records include a report of a 1-gallon spill of fuel oil in 1993 at the site.

#### **STATUS**

RRSE RATING: Medium

**CONTAMINANTS:** 

SVOCs, VOCs, Inorganics, Petro-

leum Hydrocarbons

MEDIA OF CONCERN:

Groundwater, Soil

**COMPLETED IRP PHASE:** 

PA/SI

**CURRENT IRP PHASE:** 

RI/FS

**FUTURE IRP PHASE:** 

PBC

#### PROPOSED PLAN

Out-years may require continued investigation and remediation.

#### FGGM 92 FORMER HEAVY GUN CLEANING/REPAIR

#### SITE DESCRIPTION

The Department of Logistics Tactical & Support Vehicle/Heavy Equipment Maintenance Facility, Building 2246 (SWMUs 55-58), is located at the southwest corner of the intersection of Pepper Road and Huber Road. Building 2253 (SWMUs 61-62) is located approximately 400 feet northeast of the intersection of Rock Avenue and Huber Road. Current and future land uses at the site, according to the Fort George G. Meade Land Use Plan designate the area for "maintenance."

The maintenance facility includes two main structures, Buildings 2246 (SWMUs 55-56), which includes a wing containing vehicle service bays, and 2246D, and two smaller structures, Buildings 2244 and 2245. A wash rack (SWMU 58) and associated oil/water separator (SWMU 57) are present at the southwest side of Building 2246D. Other features at the site include a relatively new 800-gallon aboveground used oil storage tank at the eastern corner of Building 2246D,

#### **STATUS**

RRSE RATING: High CONTAMINANTS:

SVOCs, VOCs, Heavy Metals TPH

**MEDIA OF CONCERN:** 

Groundwater, Soil

**COMPLETED IRP PHASE:** 

PA/SI

**CURRENT IRP PHASE:** 

RI/FS (funded)

**FUTURE IRP PHASE:** 

**PBC** 

an out-of-service wash rack on the north side of the Building 2246 vehicle maintenance wing, and an out-of-service fuel pump on the north side of the vehicle maintenance wing. The fuel pump formerly dispensed fuel from an underground diesel fuel storage tank, which was removed in the 1990s.

Building 2246 has been used as a warehouse and vehicle and equipment maintenance facility since 1934; it was also used as a heavy gun repair shop from 1934 until the mid-1980s, and a portion of the building is also believed to have been used as a tank repair shop in the past. The facility currently provides all levels of maintenance and repair of heavy equipment and base vehicles.

Building 2253 was constructed in 1934, and has been used for vehicle maintenance in the past. Since 1992, the Director of Community Activities has used the facility for storage and maintenance of grounds keeping equipment and supplies (e.g., tractors, gas cylinders); prior to 1992 it was used by the Department of Logistics (DOL) as a warehouse. It was transferred back to the DOL in 2001. Contents of the building include small quantities of petroleum products. The north end of the building interior is currently unoccupied and secured because of the presence of lead paint and asbestos-containing materials.

An outdoor storage locker stores accumulated hazardous wastes, which are transferred to Building 2250 when the locker is full. An 800-gallon AST in the parking lot on the west side of the building serves as a collection point for used oil from vehicle maintenance. A gas cylinder storage cage is located adjacent to the hazardous waste storage locker.

Investigations conducted at the Building 2246 site identified the following exceedances of screening criteria:

- Soil
- Arsenic exceeded RBC-residential in at least 11 of 37 locations tested. Detection limits exceeded RBC-residential, and 5/00 detection limits also exceeded RBC-industrial.
- TPH-diesel exceeded MDE cleanup standard in three of 23 samples tested
- Groundwater
- Four VOCs (benzene, TCE, PCE, and vinyl chloride) exceeded their RBCs at one or two locations. TCE, PCE, and vinyl chloride also exceeded MCLs.
- One SVOC (bis(2-ethylhexyl)phthalate) exceeded its RBC at four locations.
- TPH-diesel exceeded its draft MDE screening criterion at four locations, and TPH-gasoline exceeded at one location.
- No dissolved metals exceeded their RBCs or MCLs in the five samples tested. Seven total metals (arsenic, beryllium, cadmium, copper, nickel, lead, thallium) exceeded their RBCs and MCLs in up to 17 locations.

#### FGGM 92 FORMER HEAVY GUN CLEANING/REPAIR (PAGE 2)

At Building 2253, investigations conducted at the site identified the following exceedances of screening criteria:

- Soil
- Arsenic exceeded its RBC-residential at all eight location tested; it exceeded the RBC-industrial at five locations and the background mean at seven locations.
- TPH-diesel at one location exceeded the MDE cleanup standard for UST sites.
- · The herbicide MCPP at one location exceeded its RBC-residential but not its RBC-industrial.
- Groundwater
- · Arsenic exceeded its RBC but not its MCL at one of three locations tested.
- TPH-diesel at three locations exceeded the draft MDE screening criterion.
- The SVOC bis(2-ethylhexyl)phthalate and the herbicide MCPA each exceeded their RBCs. at one location.

#### PROPOSED PLAN

Out-years may require continued investigation and remediation.

#### FGGM 93 MANOR VIEW DUMP SITE

#### SITE DESCRIPTION

The Manor View Dump Site is located behind Manor View Elementary School, adjacent to Picerne Military Housing Neighborhood No. 1. The area was discovered during the excavation and grading to facilitate construction of the new housing. Historical maps indicate a former incinerator existed at this location. A PA/SI was conducted Spring of FY03. This investigation was limited to surface and subsurface soil in and around the dump area. Contaminants found in the soil exceeding screening criteria included inorganics, TPH and PAHs. A remedial investigation is underway to investigate all potentially impacted media.

#### **STATUS**

RRSE RATING: High CONTAMINANTS:
TPH, PAHs, Inorganics

**MEDIA OF CONCERN:** 

Groundwater, Soil

**COMPLETED IRP PHASE:** 

PA/SI

**CURRENT IRP PHASE:** 

RI/FS

**FUTURE IRP PHASE:** 

RI/FS, LTM

#### **PROPOSED PLAN**

Complete RI/FS.

#### PMR-001 PHOENIX NIKE (FORMER SEPTIC SYSTEM)

#### SITE DESCRIPTION

This site is an old Nike-Hercules missile facility located in Phoenix, MD. The site was characterized and found to have contaminated groundwater with TCE. The drinking water supply for the local residents consisted of wells which were contaminated. Bottled water was provided as an interim measure pending the construction of a community deep well system for residents. Funding for the county to maintain the community well system for ten years was calculated and drawn up as a legal agreement between DA and Baltimore County. FY95 DERA funds covered the cost of the agreement. Subsequently, a remedial investigation was started at the site to evaluate the nature and extent of contamination beyond facility property and within the facility boundary.

#### **STATUS**

RRSE RATING: High CONTAMINANTS:

TPH, VOCs

**MEDIA OF CONCERN:** 

Groundwater, Soil

**COMPLETED IRP PHASE:** 

PA/SI, IRA

**CURRENT IRP PHASE:** 

RI/FS

**FUTURE IRP PHASE:** 

RI/FS, RD, RA(C), RA(O)

#### PROPOSED PLAN

Complete RI. A Feasibility Study will be completed to evaluate possible remedial alternatives for groundwater.



#### (PAST MILESTONES)

None provided by the installation.

#### **PROJECTED MILESTONES**

Projected completion date of all RA: 2008
Projected completion date of IRP: 2015+

#### **NO FURTHER ACTION SITES**

AEDB-R#	<u>Title</u>	RC Date
FGGM 03	Water Treatment Plant Bldg 8688	1994
FGGM 08	Comp Ammo Supply Point #1	1999
FGGM 11	Chemical Weapons	1997
FGGM 14	Hazardous Waste Storage Facility	1994
FGGM 18	ASP#2	1996
FGGM 19	Adv. Wastewater Treatment Facility	1994
FGGM 36	Photo Labs Bldg 4553, 6530	1996
FGGM 37	Kimbrough Army Hospital	1996
FGGM 45	Calibration Lab Building 2220	1996
FGGM 49	DOL Building 2246	1996
FGGM 51	Building 2216	1996
FGGM 70	Bldg 6513 Indoor Range	1996
FGGM 71	Bldg 6512 Ex Indoor Range	1996
FGGM 75	USTs Prior to 1984	1996
FGGM 78	Granite Nike	2001
PMR-002	Underground Storage Tank (Removed)	1993
PMR-003	Vehicle Maintenance Shop (Removed)	1987
PMR-004	Generator Building (Removed)	1987
1 1011 ( 50-4	Contrator Ballating (Internoved)	1007

### Fort George G. Meade IRP Schedule

(Based on current funding constraints)

#### **CURRENT FUNDING**

#### **FUTURE FUNDING**

AEDB-R#	PHASE	FY05	FY06	FY07	FY08	FY09	FY10+
FGGM 13	RI/FS						
	RD						
	RAC						
					_		
FGGM 17	RI/FS						
	LTM						
FGGM 74	RI/FS						
	LTM						
				•	ī		1
FGGM 86	RI/FS						
	RD						
	RAC						
	RAO						
	I==			ı	ı	T	1
FGGM 87	RI/FS						
	RD						
	RAC						
	RAO						
ECOM 00	DUEO				1	1	1
FGGM 93	RI/FS						
	LTM						

#### **Phoenix Military Reservation IRP Schedule**

(Based on current funding constraints)

PMR-001	RI/FS			
	RD			
	RAC			
	RAO			

### Remediation Activities

#### Past REM/IRA/RA

FGGM 05, Troop Boiler (EPR# FTM092S011). VENC, install pump & treat system and monitoring wells: FY92, FY93, FY94, FY95, FY92-96, FY97, FY98 LTM.

FGGM 07, DRMO Drum Site (EPR# FTM095S016). VENC, drum and transformer removal: FY95, FY96, FY97, FY98.

FGGM 17, Landfill Cell 1. (1) EPR# FTM089S031. VENC, FY91, FY92, FY93, FY94. DERA, site prep, cap components, gas vent system, groundwater monitoring, sediment control: FY94. DERA, FY95, cover material and fill & design changes, FY96, FY97, FY98.

FGGM 33, Battery Shop (EPR# FTM092F009). VENC, remove contaminated soil and tank: FY92.

FGGM 75, USTs Prior to 1984 (EPR# FTM089S017). Remove 309 USTs and contaminated soil: VENC, FY91, FY92, FY93, FY94; and AFH FY95.

PMR-001, Phoenix Nike (EPR# PX0090F800). DERA, install well system and conduct monitoring: FY94, FY98.

FGGM 05, Troop Boiler (EPR# FTM092S011). DERA, operation of pump & treat system and monitoring wells: FY98, FY99.

FGGM 07, DRMO Drum Site (EPR# FTM095S016). DERA, hazardous waste characterization, contaminated soil disposal: FY98, FY99.

FGGM 17, Landfill Cell #2 Cap (EPR# FTM089S031). DERA, initiate design and begin cap: FY98 - FY99.

FGGM 33, Battery Shop (EPR# FTM092F009). DERA, Remedial Investigation: FY98 - FY99.

FGGM 47, Post Laundry Facility (EPR# FTM091S005). Remedial Investigation: FY98 - FY99.

FGGM 74, Architect of the Capital (EPR# FTM094F001). DERA, Remedial Investigation. FY98-99.

PMR-001, Phoenix Nike, (EPR# FTM3940800). DERA, LTM: FY98 - FY99.

FGGM 78, Granite Nike Control Site (EPR# FTM095s011) site investigation FY98, FY99, FY01.

FGGM 83, Old Incinerator Site (EPR#FTM098S002) Site Investigation FY98.

FGGM 84, Former Trap and Skeet Range (EPR#FTM098S002) Site Investigation FY98 - FY99.

FGGM 85- Solid Waste Management Unit Study (EPR#093S006) FY99-00, PA/SI.

#### **Current REM/IRA/RA**

FGGM 05, Troop Boiler. RA anticipated with RIP/RC under PBC.

FGGM 07, DRMO Drum Site . FS (FY04) RA anticipated with RIP/RC under PBC.

FGGM 17, Landfill groundwater, methane gas monitoring and off-site groundwater contamination investigation. Carbon Tetrachloride investigation in upgradient landfill monitoring well.

FGGM 33, Battery Shop. IRA FY92, NFA documentation in FY04.

FGGM 47, Post Laundry Facility, FS and probable RA under PBC

FGGM 74, Architect of the Capital. DERA, Remedial Investigation and well monitoring.

### Remediation Activities

PMR-001, Phoenix Nike. DERA, RI/FS, RD, RAC, RAO, LTM:

FGGM 83, Trap and Skeet Range, EE/CA investigation FY04, potential closure pending EPA review.

FGGM 86, Former Motor Pool Maintenance Facility, Continued SI with RI.

FGGM 87, Former Nike Control Site, Continued SI with possible RI.

FGGM 88, Former Tank Maintenance Shop-1, RI anticipated with RIP/RC under PBC.

FGGM 89, Former Tank Maintenance Shop-2, RI anticipated with RIP/RC under PBC.

FGGM 90, Former Tank Cleaning Supply Warehouse, RI anticipated with RIP/RC under PBC.

FGGM 91, Former Ordnance Shop, RI anticipated with RIP/RC under PBC.

FGGM 92, Former Heavy Gun Cleaning and Repair Shop, RI anticipated with RIP/RC under PBC.

#### Future REM/IRA/RA

RA at FGGM 07, 17, 47, 83, 86, 87, 88, 89, 90, and PMR-001

### Community Involvement

#### **RESTORATION ADVISORY BOARD (RAB) STATUS**

Fort Meade has an active established Restoration Advisory Board and meets once each quarter. The board was established in 1995 and currently has 9 members.